

Datasheet for ABIN7544954
UGDH Protein (AA 1-494) (His tag)



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Overview

Quantity:	1 mg
Target:	UGDH
Protein Characteristics:	AA 1-494
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This UGDH protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant UGDH Protein expressed in mammalian cells.
Sequence:	<p>MFEIKKICCI GAGYVGGPTC SVIAHMCPEI RVTVVDVNES RINAWNSPTL PIYEPGLKEV VESCRGKNLF FSTNIDDAIK EADLVFISVN TPTKTYGMGK GRAADLKYIE ACARRIVQNS NGYKIVTEKS TVPVRAAESI RRIFDANTKP NLNLQVLSNP EFLAEGTAIK DLKNPDRVLI GGDETPEGQR AVQALCAVYE HWVPREKILT TNTWSSELSK LAANAFLAQR ISSINSISAL CEATGADVEE VATAIGMDQR IGKFLKASV GFGGSCFQKD VLNLVYLCEA LNLPEVARYW QQVIDMNDYQ RRRFASRIID SLFNTVTDDK IAILGFAFKK DTGDTRESSS IYISKYLMDE GAHLHIYDPK VPREQIVVDL SHPGVSEDDQ VSRLVTISKD PYEACDGAHA VVICTEWD MF KELDYERIEHK KMLKPAFIFD GRRVLDGLHN ELQTIGFQIE TIGKKVSSKR IPYAPSGEIP KFSLQDPPNK KPKV</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

isoform, please contact us regarding an individual offer.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

UGDH

Alternative Name:

UGDH ([UGDH Products](#))

Background:

UDP-glucose 6-dehydrogenase (UDP-Glc dehydrogenase) (UDP-GlcDH) (UDPGDH) (EC 1.1.1.22),FUNCTION: Catalyzes the formation of UDP-alpha-D-glucuronate, a constituent of complex glycosaminoglycans (PubMed:21961565, PubMed:21502315, PubMed:23106432, PubMed:22123821, PubMed:25478983, PubMed:27966912, PubMed:30420606, PubMed:30457329). Required for the biosynthesis of chondroitin sulfate and heparan sulfate. Required for embryonic development via its role in the biosynthesis of glycosaminoglycans (By similarity). Required for proper brain and neuronal development (PubMed:32001716). {ECO:0000250|UniProtKB:O70475, ECO:0000269|PubMed:21502315, ECO:0000269|PubMed:21961565, ECO:0000269|PubMed:22123821, ECO:0000269|PubMed:23106432, ECO:0000269|PubMed:25478983, ECO:0000269|PubMed:27966912, ECO:0000269|PubMed:30420606, ECO:0000269|PubMed:30457329, ECO:0000269|PubMed:32001716}.

Target Details

Molecular Weight:	55.0 kDa
UniProt:	O60701
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months